

FIG. 1

FLK-1	866	ILIHIGHHLNVVNLLGACTKPGGPLMVIVEFSKFGNLSTYLRGKRNEFVPYKSKGARFRQ
KDR		-----C--D-----S-----T-----
TKR-C		-----C-----S-----
FLK-1	926	GKDYVGELSVDLKRRRLDSITSSQSSASSGFVEEKSLSDVEEEEASEELYKDFTLEHLIC
KDR		-----AIP-----P-D-----
TKR-C		-----
FLK-1	986	YSFQVAKGMEFLASRKCIHRDLAARNILLSEKNVVKICDFGLARDIYKDPDYVRKGDARL
KDR		-----
TKR-C		-----

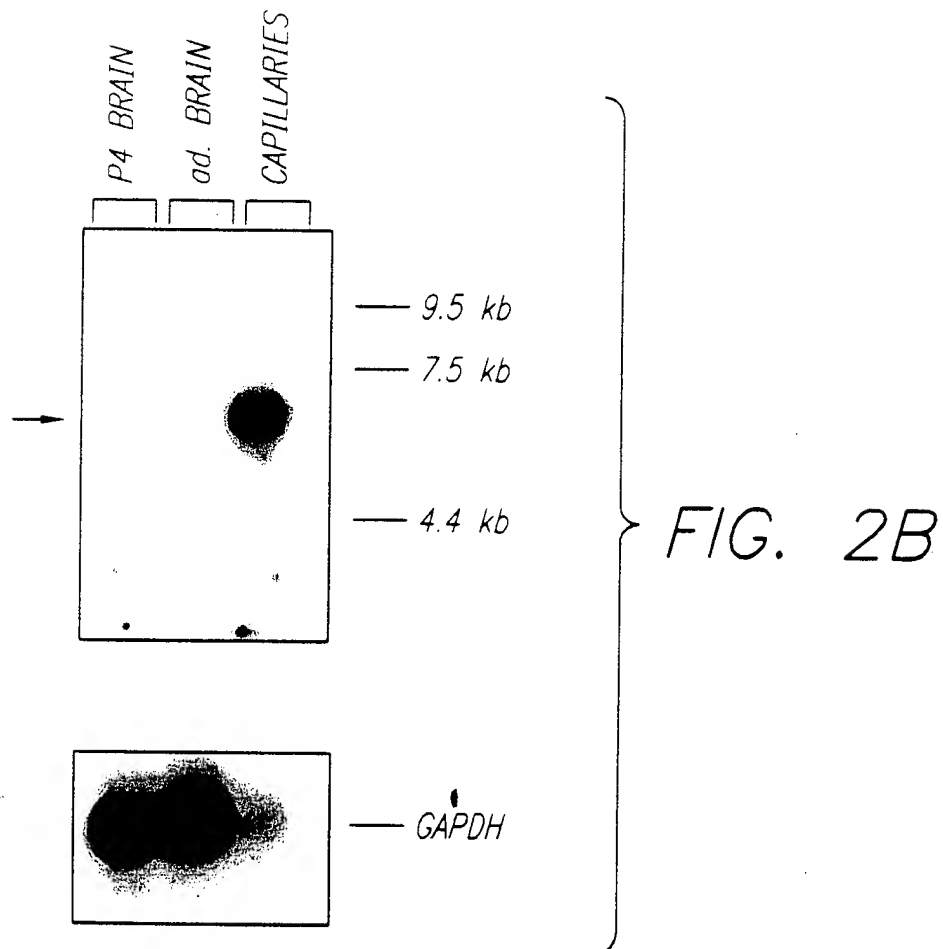
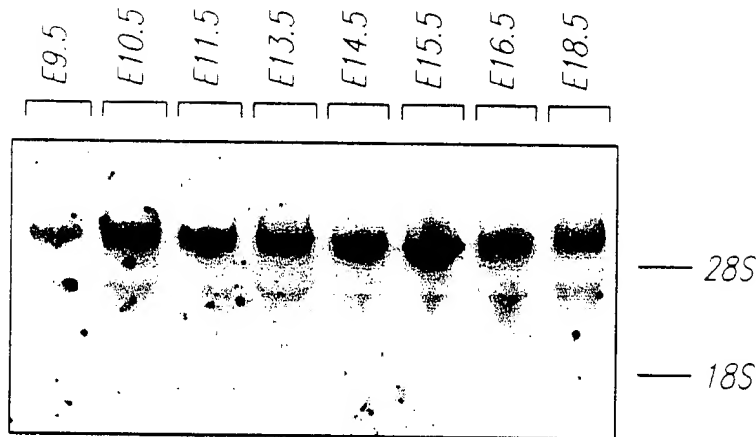
09766678.110901

FOR THE INHIBITION OF FLK-1  
MEDIATED VASCULOGENESIS AND  
ANGIOGENESIS

Inventor(s): Axel ULLRICH et al.

Appl. No.: 09/766,678

FIG. 2A

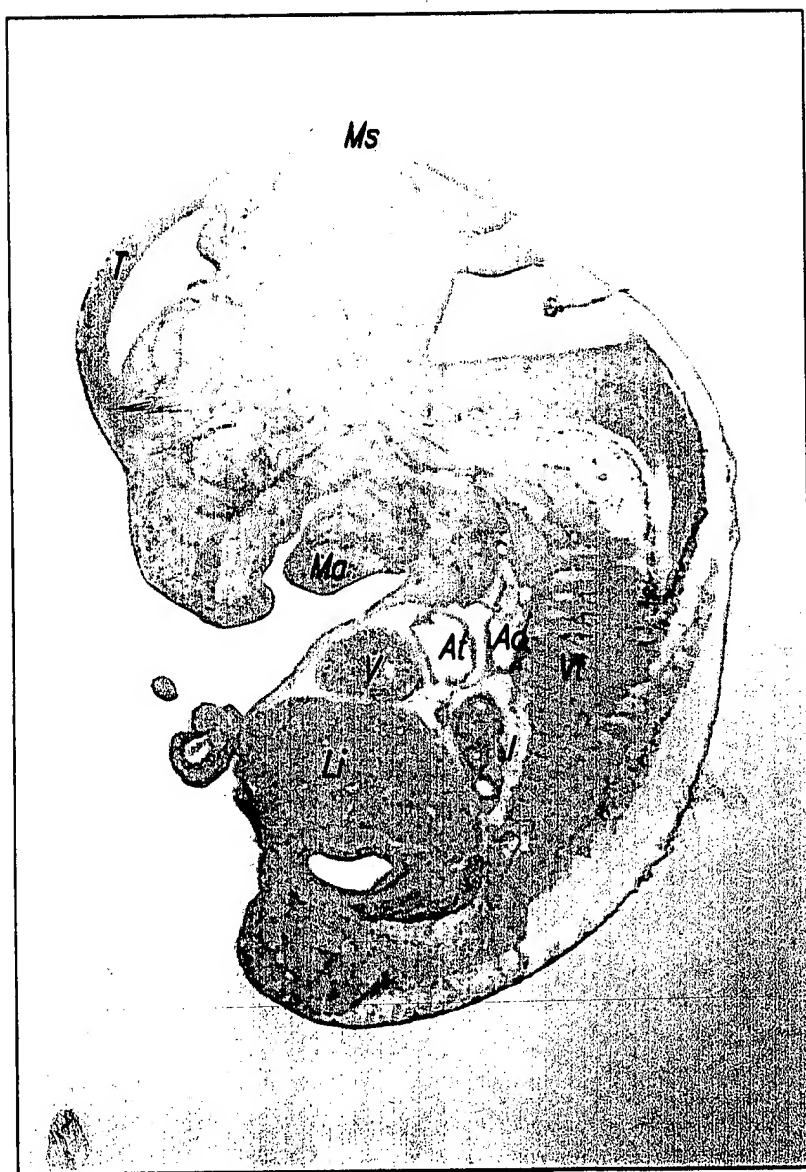


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MEDIATED VASCULOGENESIS AND  
ANGIOGENESIS

Inventor(s): Axel ULLRICH et al.  
Appl. No.: 09/766,678

FIG. 3A



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MEDIATED VASCULOGENESIS AND  
ANGIOGENESIS

Inventor(s): Axel ULLRICH et al.

Appl. No.: 09/766,678

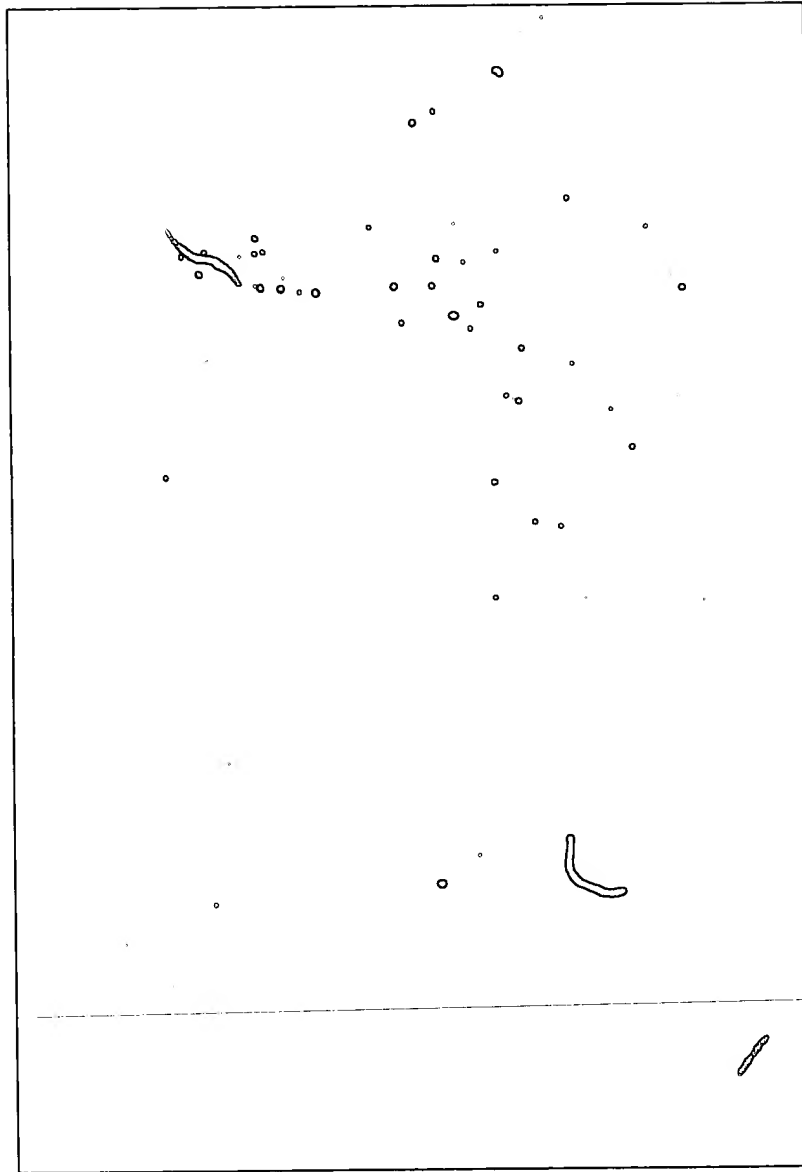
FIG. 3B



MEDIATED VASCULOGENESIS AND  
ANGIOGENESIS

Inventor(s): Axel ULLRICH et al.  
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FIG. 3C



09/766,678-10001

MEDIATED VASCULOGENESIS AND  
ANGIOGENESIS

Inventor(s): Axel ULLRICH et al.

Appl. No.: 09/766,678

FIG. 4A

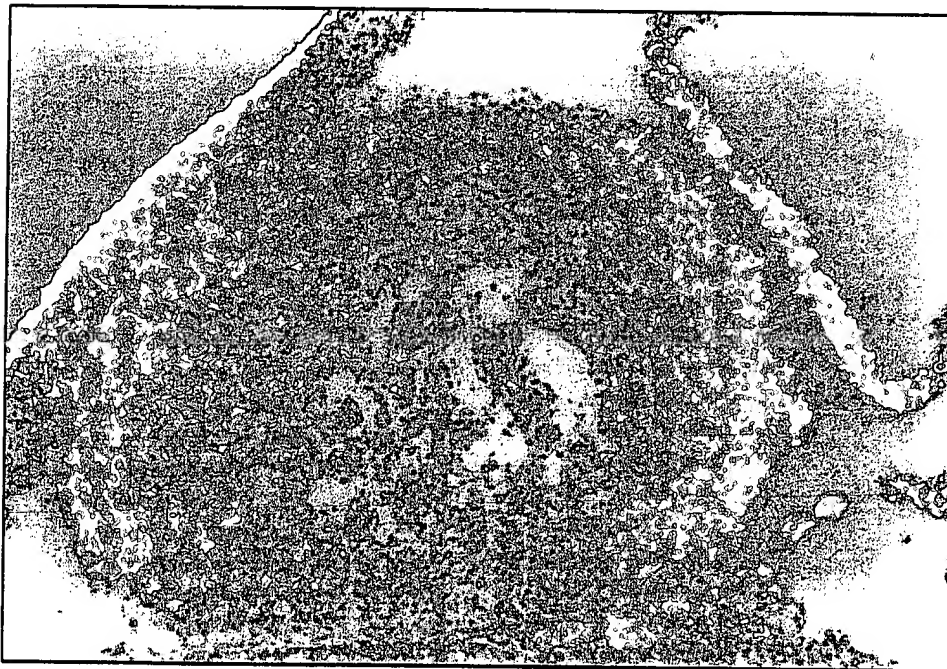
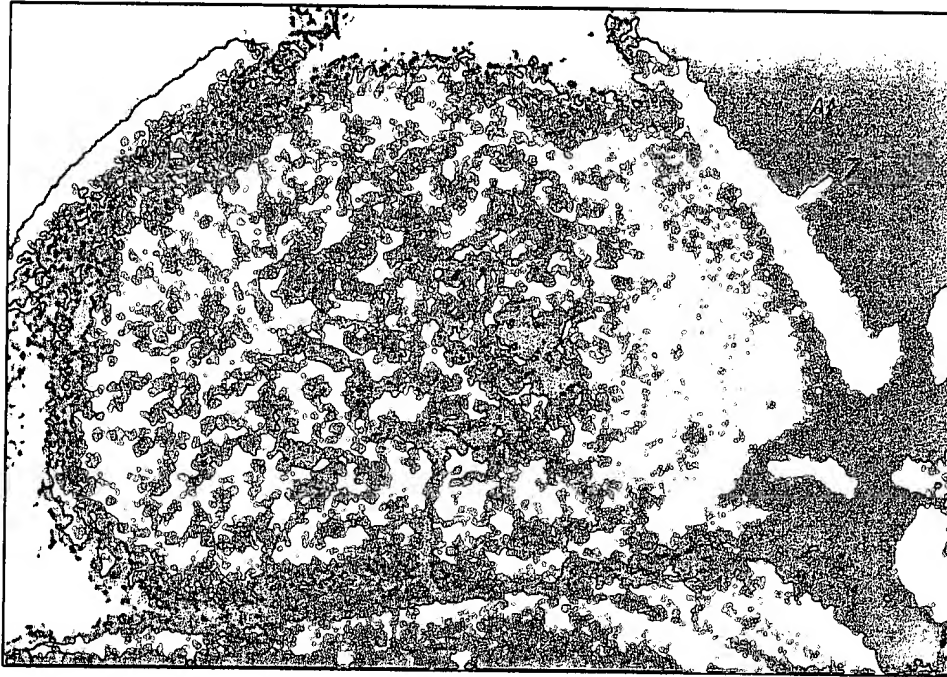


FIG. 4B

MEDIATED VASCULOGENESIS AND  
ANGIOGENESIS

Inventor(s): Axel ULLRICH et al.

Appl. No.: 09/766,678

FIG. 4E

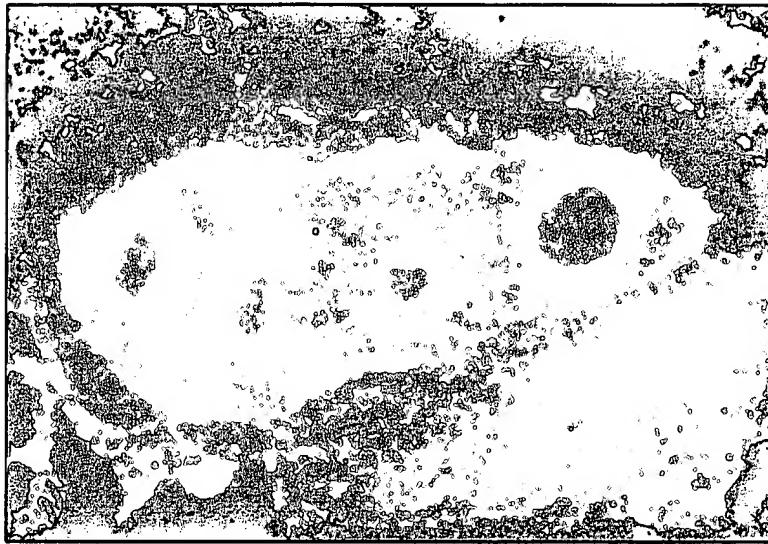


FIG. 4D

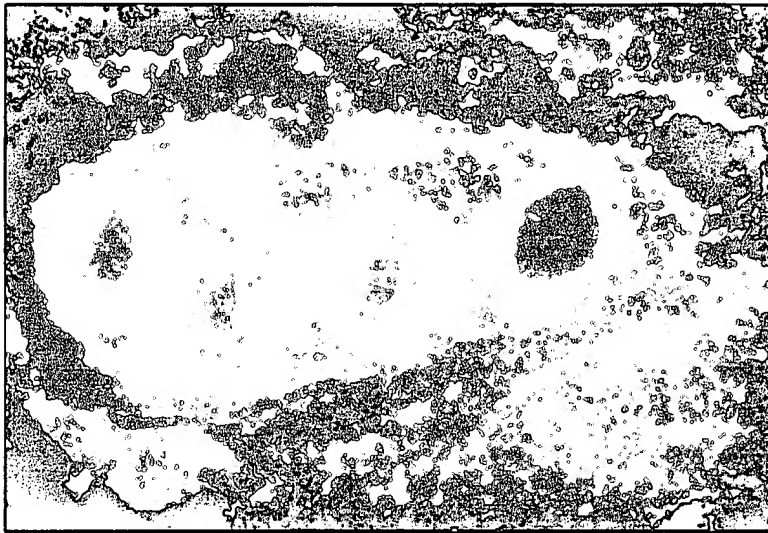
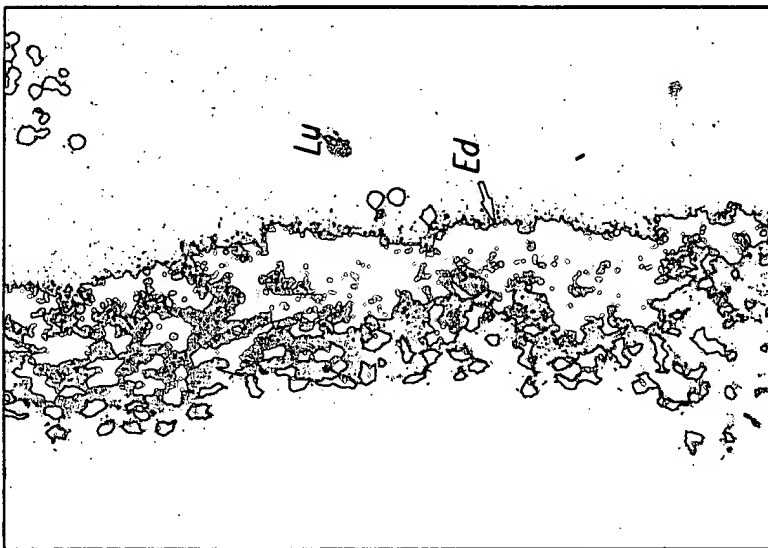


FIG. 4C



MEDIATED VASCULOGENESIS AND  
ANGIOGENESIS

Inventor(s): Axel ULLRICH et al.

Appl. No.: 09/766,678

FIG. 5A

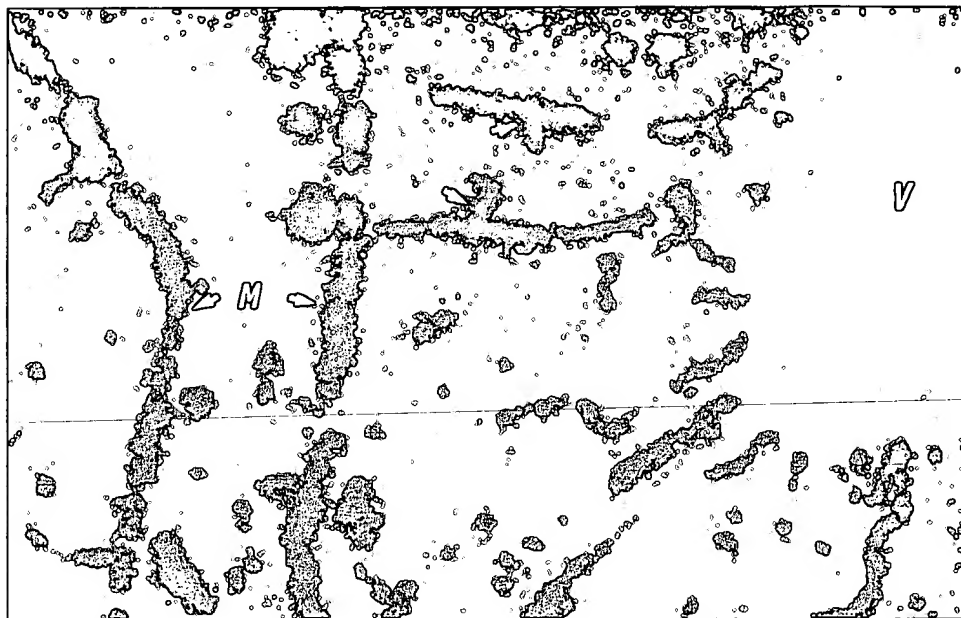
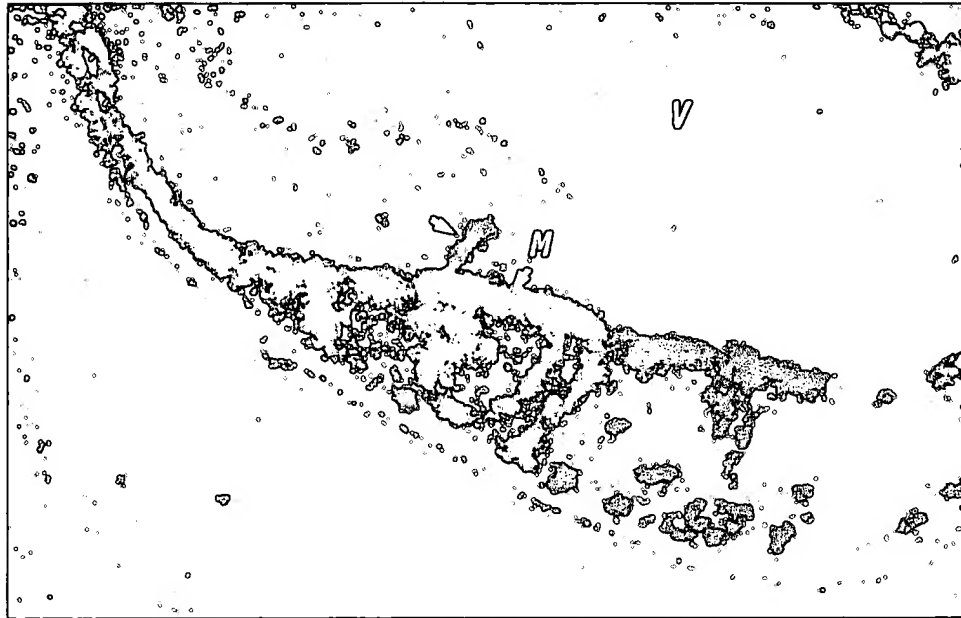


FIG. 5B

09/766,678-1000

FIG. 5C

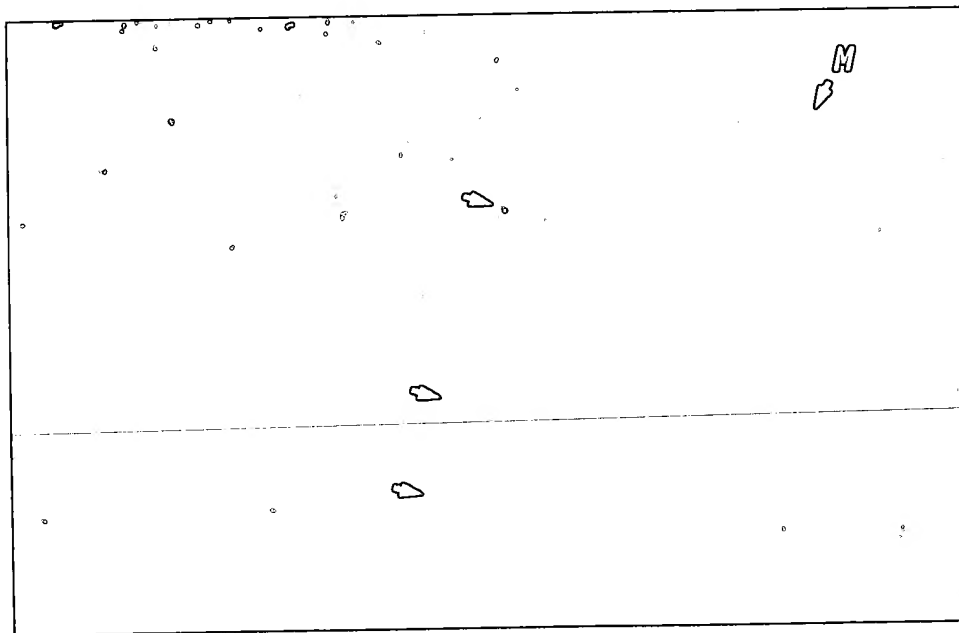
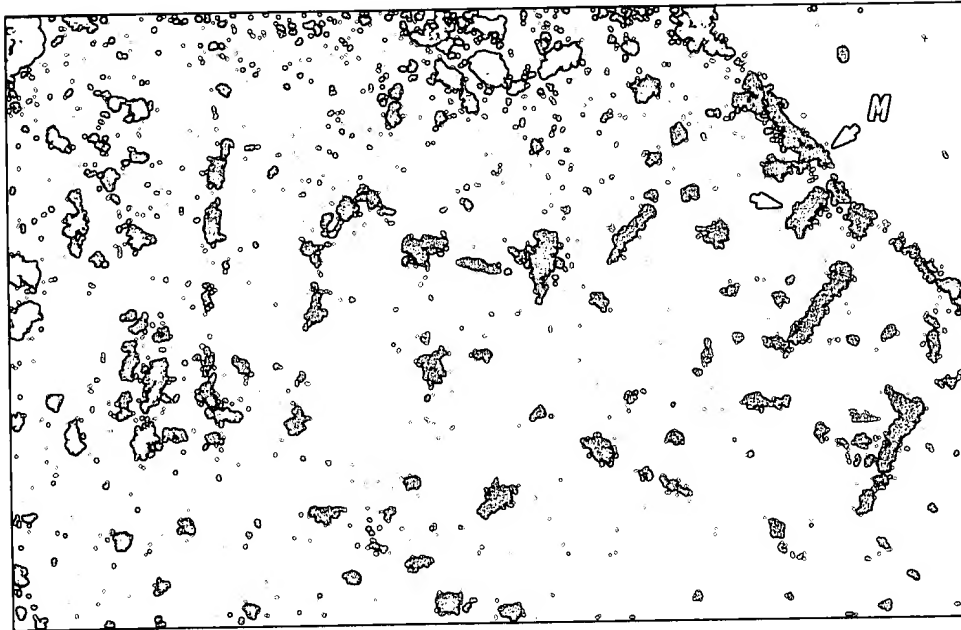


FIG. 5D

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FIG. 6A

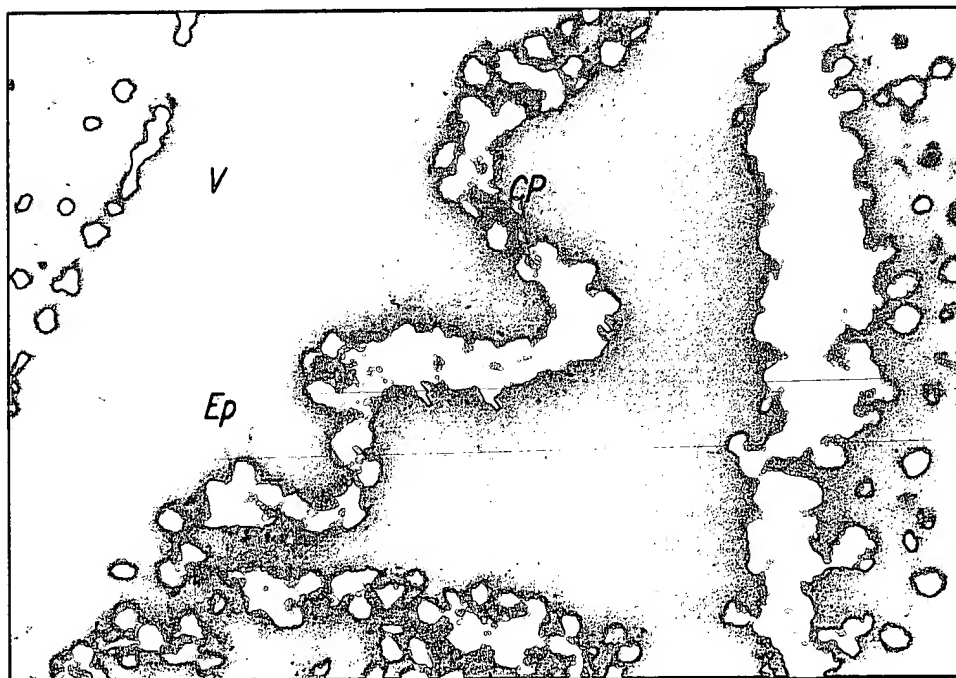
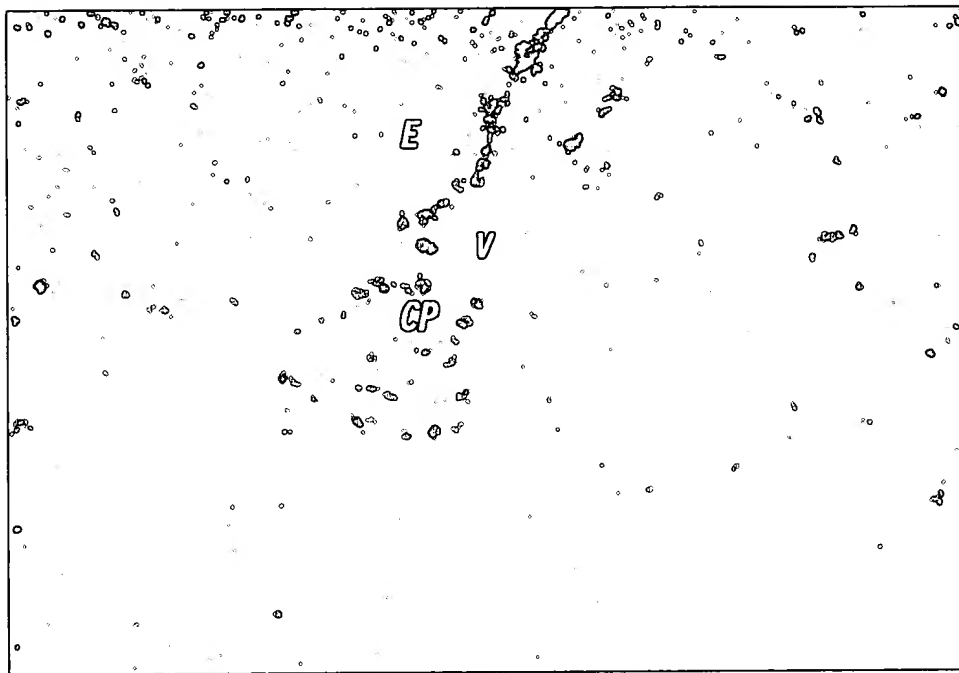


FIG. 6B

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MEDIATED VASCULOGENESIS AND  
ANGIOGENESIS

Inventor(s): Axel ULLRICH et al.

Appl. No.: 09/766,678

FIG. 7A

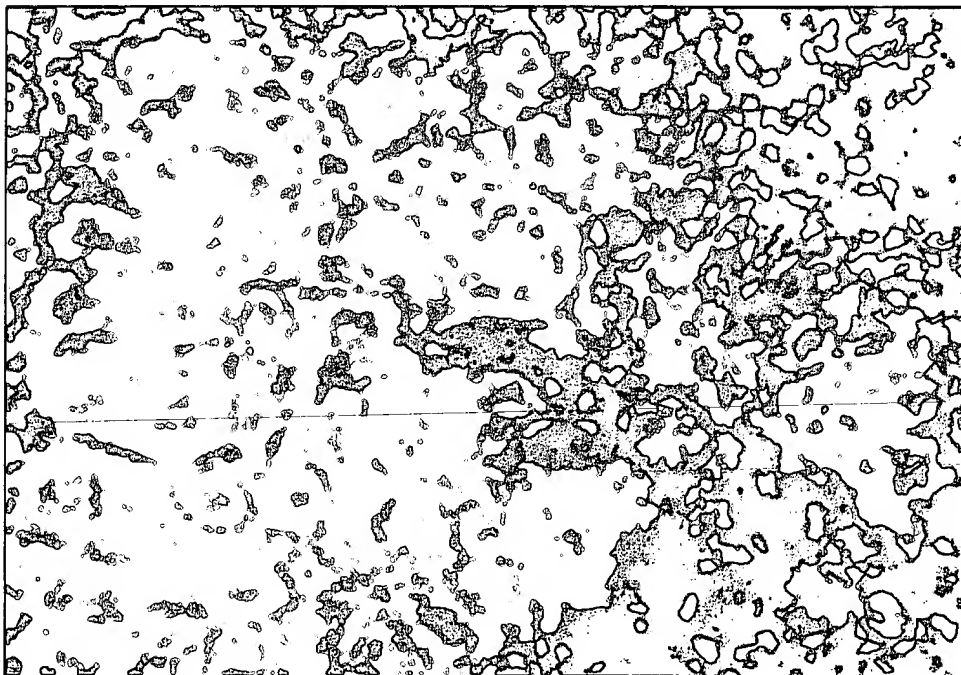
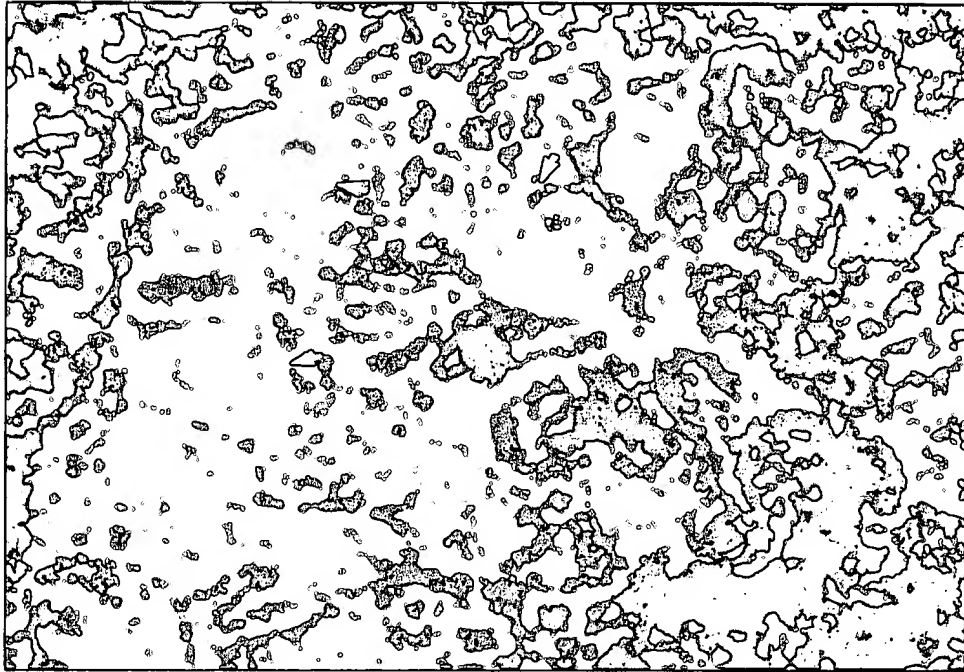


FIG. 7B

09766678-10001

FIG. 7C

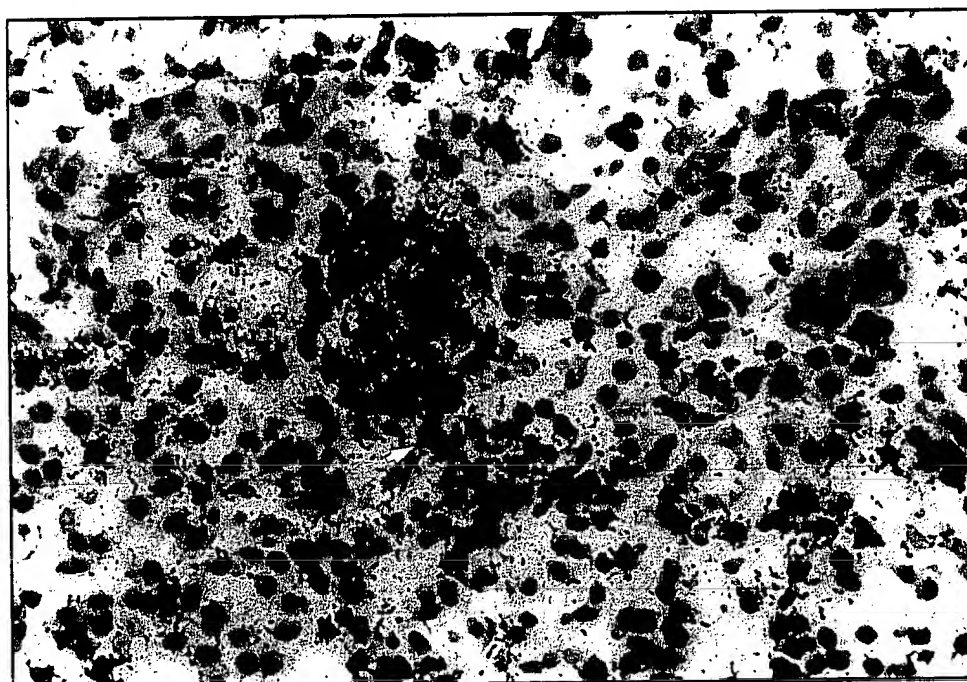
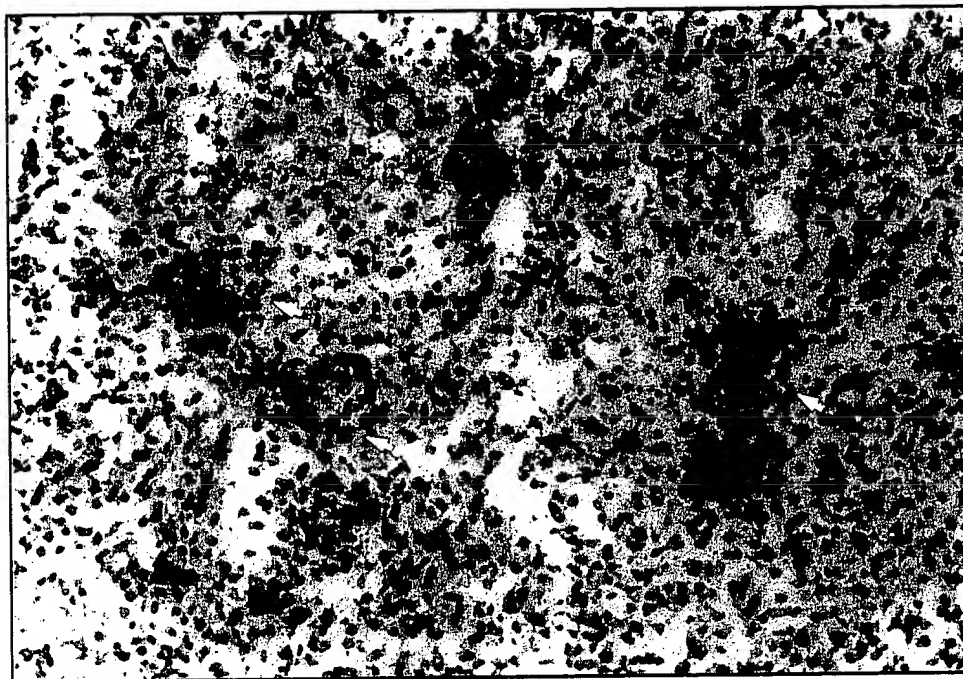


FIG. 7D

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MEDIATED VASCULOGENESIS AND  
ANGIOGENESIS

Inventor(s): Axel ULLRICH et al.

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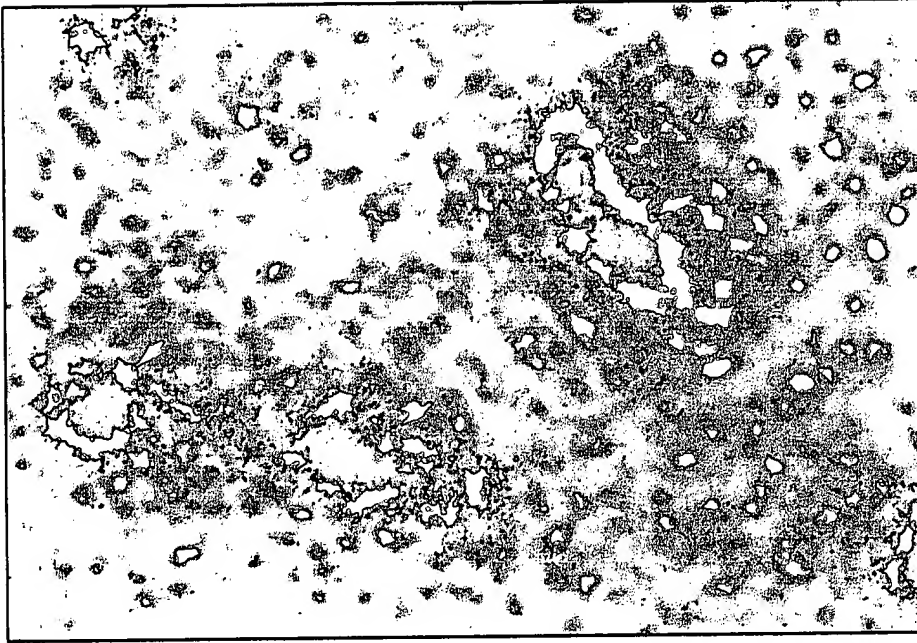


FIG. 8B



FIG. 8A

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MEDIATED VASCULOGENESIS AND  
ANGIOGENESIS

Inventor(s): Axel ULLRICH et al.

Appl. No.: 09/766,678

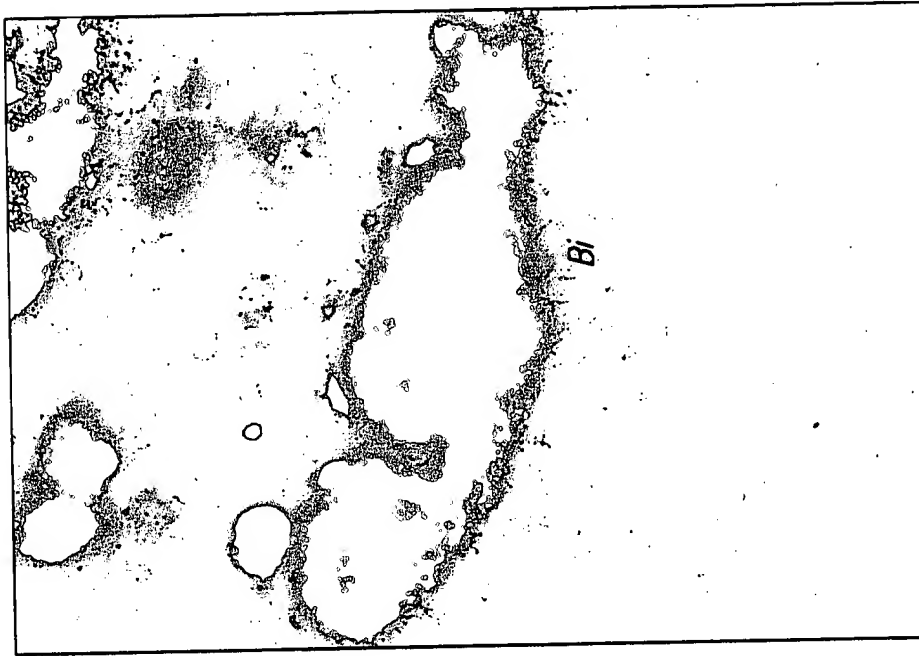


FIG. 8D

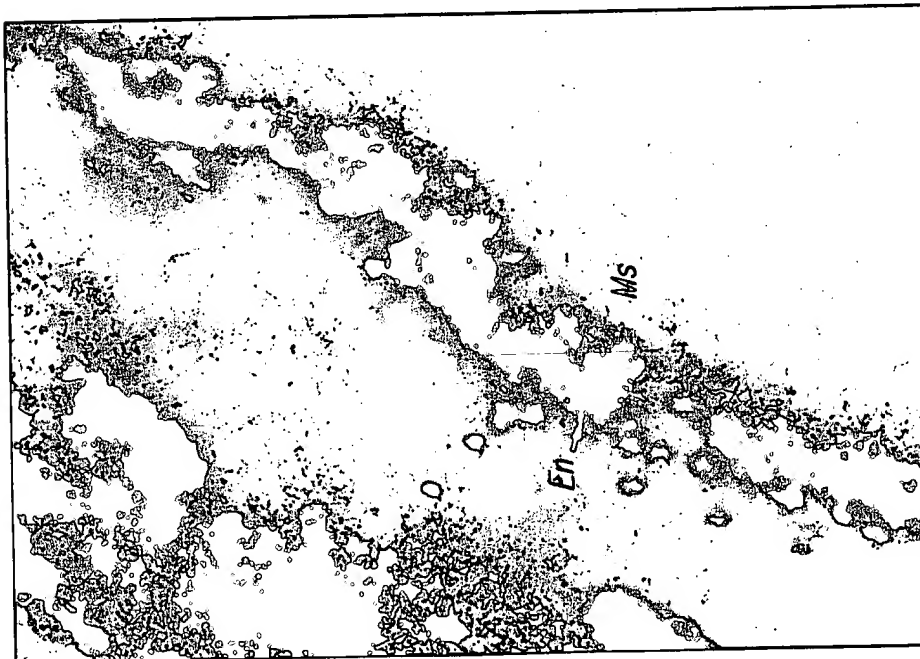


FIG. 8C

FIG. 8C 8/99 8/60

FIG. 9A

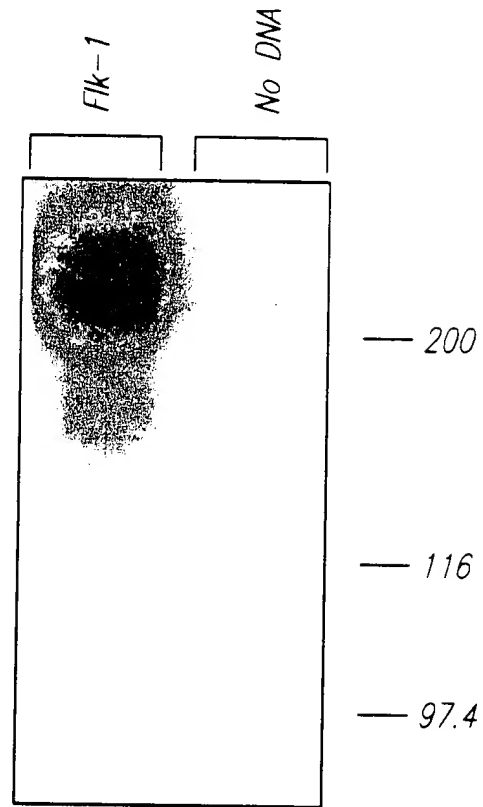


FIG. 10

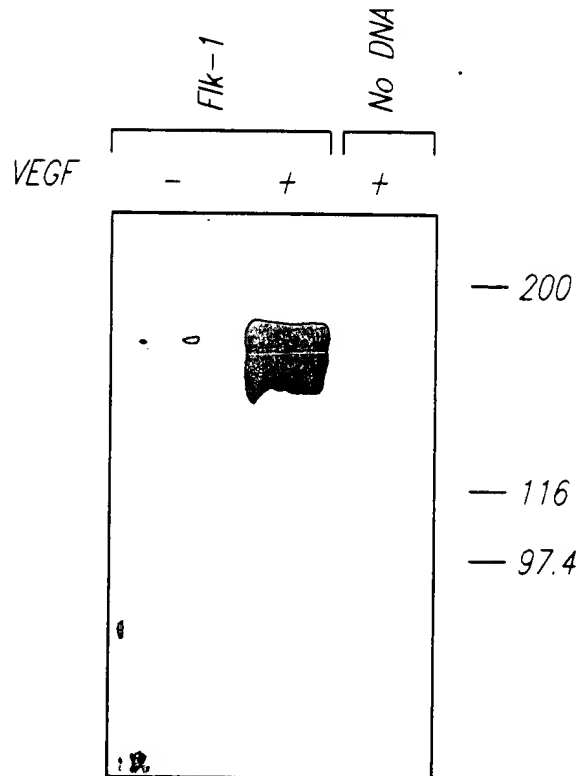
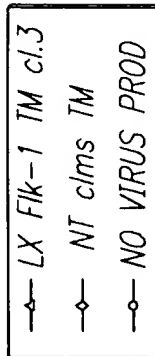
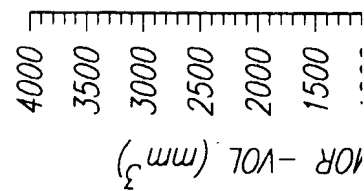
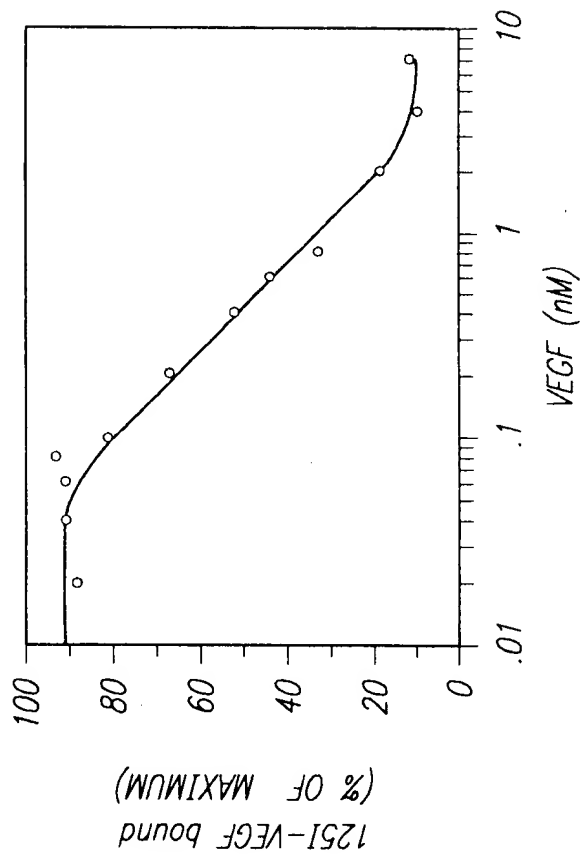


FIG. 9B



MEDIATED VASCULOGENESIS AND  
ANGIOGENESIS

Inventor(s): Axel ULLRICH et al.

Appl. No.: 09/766,678

FIG. 11-1

CTGTGTCCCGCAGCCGGGATAACCTGGCTGACCCGATTCCGCGGACACCGCTGACAGCCGCGGCTGGAGCCAGGG 75  
CGCCGGTGCCCCGCGCTCTCCCCGGTCTTGCGCTGCGGGGCCATACCGCCTCTGTGACTTCTTTGCGGGCCAGG 150  
GACGGAGAAGGAGTCTGTGCCTGAGAACTGGGCTCTGTGCCAGGCGCGAGGTGCAGGATGGAGAGCAAGGCGC 225  
M E S K A L

TGCTAGCTGTGCTCTGTGGTTCTGCGTGGAGACCCGAGCCGCTCTGTGGGTTTGACTGGCGATTTTCTCCATC 300  
L A V A L W F C V E T R A A S V G L T G D F L H P

CCCCAAGCTCAGCACACAGAAAGACATACTGACAATTTTGGCAAATACAACCCTTCAGATTACTTGCAGGGGAC 375  
P K L S T Q K D I L T I L A N T T L Q I T C R G Q

AGCGGGACCTGGACTGGCTTTGGCCCAATGCTCAGCGTGATTCTGAGGAAAGGTATTGGTGACTGAATGCGGCG 450  
R D L D W L W P N A Q R D S E E R V L V T E C G G

GTGGTGACAGTATCTTCTGCAAAACACTCACCATTCCAGGGTGGTTGGAAATGATACTGGAGCCTACAAGTGCT 525  
G D S I F C K T L T I P R V V G N D T G A Y K C S

CGTACCGGGACGTCGACATAGCCTCCACTGTTTATGTCTATGTTGAGATTACAGATCACCATTTCATCGCCTCTG 600  
Y R D V D I A S T V Y V Y V R D Y R S P F I A S V

TCAGTGACCAGCATGGCATCGTGTACATCACCGAGAACAAGAACAAACTGTGGTGATCCCCTGCCGAGGGTCGA 675  
S D Q H G I V Y I T E N K N K T V V I P C R G S I

TTTCAAACCTCAATGTGTCTCTTTGCGCTAGGTATCCAGAAAAGAGATTGTTCCGGATGGAACAGAAATTCCT 750  
S N L N V S L C A R Y P E K R F V P D G N R I S W

GGGACAGCGAGATAGGCTTTACTCTCCCCAGTTACATGATCAGCTATGCCGGCATGGTCTTCTGTGAGGCAAAGA 825  
D S E I G F T L P S Y M I S Y A G M V F C E A K I

TCAATGATGAAACCTATCAGTCTATCATGTACATAGTTGTGGTTGTAGGATATAGGATTTATGATGTGATTCTGA 900  
N D E T Y Q S I M Y I V V V V G Y R I Y D V I L S

GCCCCCGCATGAAATTGAGCTATCTGCCGAGAAAACTTGCTTAAATTGTACAGCGAGAACAGAGCTCAATG 975  
P P H E I E L S A G E K L V L N C T A R T E L N V

TGGGGCTTGATTTACCTGGCACTCTCCACCTTCAAAGTCTCATCATAAGAAGATTGTAAACCGGGATGTGAAAC 1050  
G L D F T W H S P P S K S H H K K I V N R D V K P

CCTTTCTGGGACTGTGGCGAAGATGTTTTTGAGCACCTTGACAATAGAAAGTGTGACCAAGAGTGACCAAGGGG 1125  
F P G T V A K M F L S T L T I E S V T K S D Q G E

AATACACCTGTGTAGCGTCCAGTGGACGGATGATCAAGAGAAATAGAACATTTGTCCGAGTTCACACAAAGCCTT 1200  
Y T C V A S S G R M I K R N R T F V R V H T K P F

TTATTGCTTTCCGTAGTGGGATGAAATCTTTGGTGGGAAGCCACAGTGGGCAGTCAAGTCCGAATCCCTGTGAAGT 1275  
I A F G S G M K S L V E A T V G S Q V R I P V K Y

ATCTCAGTTACCCAGCTCCTGATATCAAATGGTACAGAAATGGAAGGCCATTGAGTCCAACCTACACAATGATTG 1350  
L S Y P A P D I K W Y R N G R P I E S N Y T M I V

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MEDIATED VASCULOGENESIS AND  
ANGIOGENESIS

Inventor(s): Axel ULLRICH et al.  
Appl. No.: 09/766,678

FIG. 11-2

TTGGCGATGAACTCACCATCATGGAAGTGAAGTGAAGAGATGCAGGAACTACACGGTCATCCTCACCAACCCCA 1425  
G D E L T I M E V T E R D A G N Y T V I L T N P I

TTTCAATGGAGAAACAGAGCCACATGGTCTCTCTGGTTGTGAATGTCCACCCCAGATCGGTGAGAAAGCCTTGA 1500  
S M E K Q S H M V S L V V N V P P Q I G E K A L I

TCTCGCCTATGGATTCTACCAGTATGGGACCATGCAGACATTGACATGCACAGTCTACGCCAACCTCCCCTGC 1575  
S P M D S Y Q Y G T M Q T L T C T V Y A N P P L H

ACCACATCCAGTGGTACTGGCAGCTAGAAGAAGCCTGCTCCTACAGACCCGGCCAAACAAGCCGATGCTTGTA 1650  
H I Q W Y W Q L E E A C S Y R P G Q T S P Y A C K

AAGAATGGAGACACGTGGAGGATTTCCAGGGGGGAAACAAGATCGAAGTCACCAAAAACCAATATGCCCTGATTG 1725  
E W R H V E D F Q G G N K I E V T K N Q Y A L I E

AAGGAAAAACAAAACCTGTAAGTACGCTGGTCAAGCTGCCAACGTGTCAGCGTTGTACAAATGTGAAGCCA 1800  
G K N K T V S T L V I Q A A N V S A L Y K C E A I

TCAACAAAGCGGGACGAGGAGAGAGGGTTCATCTCCTTCCATGTGATCAGGGGTCTGAAATTACTGTGCAACCTG 1875  
N K A G R G E R V I S F H V I R G P E I T V Q P A

CTGCCCAGCCAACTGAGCAGGAGAGTGTGTCCCTGTTGTGCACTGCAGACAGAAATACGTTTGAGAACCTCACGT 1950  
A Q P T E Q E S V S L L C T A D R N T F E N L T W

GGTACAAGCTTGGCTCACAGGCAACATCGGTCCACATGGGCGAATCACTCACACCAGTTTGCAAGAAGCTTGGATG 2025  
Y K L G S Q A T S V H M G E S L T P V C K N L D A

CTCTTTGGAACTGAATGGCACCATGTTTTCTAACAGCACAATGACATCTTGATTGTGGCATTTCAGAATGCCT 2100  
L W K L N G T M F S N S T N D I L I V A F Q N A S

CTCTGCAGGACCAAGGCGACTATGTTTGCTCTGCTCAAGATAAGAAGACCAAGAAAAGACATTGCCTGGTCAAAC 2175  
L Q D Q G D Y V C S A Q D K K T K K R H C L V K Q

AGCTCATCATCCTAGAGCGCATGGCACCCATGATCACCGGAAATCTGGAGAATCAGACAACAACCATTTGGCGAGA 2250  
L I I L E R M A P M I T G N L E N Q T T T I G E T

CCATTGAAGTGAAGTGGCCAGCATCTGGAATCCTACCCACACATTACATGGTTCAAAGACAACGAGACCCTGG 2325  
I E V T C P A S G N P T P H I T W F K D N E T L V

TAGAAGATTCAGGCATTGTACTGAGAGATGGGAACCGGAACCTGACTATCCGAGGGTGAGGAAGGAGGATGGAG 2400  
E D S G I V L R D G N R N L T I R R V R K E D G G

GCCTCTACACCTGCCAGGCCTGCAATGTCCTTGGCTGTGCAAGAGCGGAGACGCTCTTCATAATAGAAGGTGCCC 2575  
L Y T C Q A C N V L G C A R A E T L F I I E G A Q

AGGAAAAGACCAACTTGAAGTCATTATCCTCGTCGCACTGCAGTGATTGCCATGTTCTTCTGGCTCCTTCTTG 2550  
E K T N L E V I I L V G T A V I A M F F W L L L V

TCATTGTCCTACGGACCGTTAAGCGGGCAATGAAGGGGAACTGAAGACAGGCTACTTGTCTATTGTCATGGATC 2625  
I V L R T V K R A N E G E L K T G Y L S I V M D P

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# FIG. 11-3

CAGATGAATTGCCCTTGGATGAGCGCTGTGAACGCTTGCCTTATGATGCCAGCAAGTGGGAATCCCCAGGGACC 2700  
D E L P L D E R C E R L P Y D A S K W E F P R D R

GGCTGAAACTAGGAAAACCTCTTGGCCGCGGTGCCTTCGGCCAAGTATTGAGGCAGACGCTTTTGAATTGACA 2775  
L K L G K P L G R G A F G Q V I E A D A F G I D K

AGACAGCGACTTGCAAAACAGTAGCCGTCAAGATGTTGAAAGAAGGAGCAACACACAGCGAGCATCGAGCCCTCA 2850  
T A T C K T V A V K M L K E G A T H S E H R A L M

TGTCTGAAGTCAAGATCCTCATCCACATTGGTCACCATCTCAATGTGGTGAACCTCCTAGGCGCCTGCACCAAGC 2925  
S E L K I L I H I G H H L N V V N L L G A C T K P

CGGGAGGGCCTCTCATGGTGATTCTGCAATTCTCGAAGTTTGAAACCTATCAACTTACTTACGGGGCAAGAGAA 3000  
G G P L M V I L Q F S K F G N L S T Y L R G K R N

ATGAATTTGTTCCCTATAAGAGCAAAGGGGCACGCTTCGCCAGGGCAAGGACTACGTTGGGGAGCTCTCCGTGG 3075  
E F V P Y K S K G A R F R Q G K D Y V G E L S V D

ATCTGAAAAGACGCTTGGACAGCATCACCAGCAGCCAGAGCTCTGCCAGCTCAGGCTTTGTTGAGGAGAAATCGC 3150  
L K R R L D S I T S S Q S S A S S G F V E E K S L

TCAGTGATGTAGAGGAAGAAGAAGCTTCTGAAGAACTGTACAAGGACTTCTGACCTTGGAGCATCTCATCTGTT 3225  
S D V E E E E A S E E L Y K D F L T L E H L I C Y

ACAGCTTCCAAGTGGCTAAGGGCATGGAGTTCTTGGCATCAAGGAAGTGTATCCACAGGGACCTGGCAGCACGAA 3300  
S F Q V A K G M E F L A S R K C I H R D L A A R N

ACATTCTCCTATCGGAGAAGAATGTGGTTAAGATCTGTGACTTCGGCTTGGCCCGGGACATTTATAAGACCCGG 3375  
I L L S E K N V V K I C D F G L A R D I Y K D P D

ATTATGTCAGAAAAGGAGATGCCCGACTCCCTTTGAAGTGGATGGCCCCGGAAACCATTTTTGACAGAGTATACA 3450  
Y V R K G D A R L P L K W M A P E T I F D R V Y T

CAATTCAGAGCGATGTGTGGTCTTTTCGGTGTGTTGCTCTGGGAAATATTTTCTTAGGTGCCTCCCATACCTG 3525  
I Q S D V W S F G V L L W E I F S L G A S P Y P G

GGGTCAAGATTGATGAAGAATTTTGTAGGAGATTGAAAGAAGGAACTAGAATGCGGGCTCCTGACTACACTACCC 3600  
V K I D E E F C R R L K E G T R M R A P D Y T T P

CAGAAATGTACCAGACCATGCTGGACTGCTGGCATGAGGACCCCAACCAGAGACCCTCGTTTTTTCAGAGTTGGTGG 3675  
E M Y Q T M L D C W H E D P N Q R P S F S E L V E

AGCATTTGGGAAACCTCCTGCAAGCAAATGCGCAGCAGGATGGCAAAGACTATATTGTTCTTCCAATGTCAGAGA 3750  
H L G N L L Q A N A Q Q D G K D Y I V L P M S E T

CACTGAGCATGGAAGAGGATTCTGGACTCTCCCTCCTACCTCACCTGTTTCTGTATGGAGGAAGAGGAAGTGT 3825  
L S M E E D S G L S L P T S P V S C M E E E E V C

GCGACCCCAAATTCCATTATGACAACACAGCAGGAATCAGTCATTATCTCCAGAACAGTAAGCGAAAGAGCCGGC 3900  
D P K F H Y D N T A G I S H Y L Q N S K R K S R P

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FIG. 11-4

CAGTGAGTGTAAAAACATTTGAAGATATCCCATTTGGAGGAACCAGAAGTAAAAGTGATCCCAGATGACAGCCAGA 3975  
V S V K T F E D I P L E E P E V K V I P D D S Q T

CAGACAGTGGGATGGTCCTTGATCAGAGAGCTGAAAACCTCTGGAAGACAGGAACAAATTATCTCCATCTTTTG 4050  
D S G M V L A S E E L K T L E D R N K L S P S F G

GTGGAATGATGCCAGTAAAGCAGGGAGTCTGTGGCCTCGGAAGGCTCCAACCAGACCAGTGGCTACCAGTCTG 4125  
G M M P S K S R E S V A S E G S N Q T S G Y Q S G

GGTATCACTCAGATGACACAGACACCACCGTGTACTCCAGCGACGAGGCAGGACTTTTAAAGATGGTGGATGCTG 4200  
Y H S D D T D T T V Y S S D E A G L L K M V D A A

CAGTTCACGCTGACTCAGGGACCACACTGAGCTCACCTCCTGTTTAAATGGAAGTGGTCTGTCCCGGCTCCGCC 4275  
V H A D S G T T L S S P P V

CCCAACTCCTGGAAATCACGAGAGAGGTGCTGCTTAGATTTTCAAGTGTGTTCTTTCCACCACCCGGAAGTAGC 4350  
CACATTTGATTTTCATTTTGGAGGAGGGACCTCAGACTGCAAGGAGCTTGTCTCAGGGCATTTCCAGAGAAGA 4425  
TGCCCATGACCCAAGAATGTGTTGACTCTACTCTTTTCCATTCATTTAAAAGTCCTATATAATGTGCCCTGCT 4500  
GTGGTCTCACTACCAGTTAAAGCAAAAGACTTTCAAACACGTGGACTCTGTCTCCAAGAAGTGGCAACGGCACC 4575  
TCTGTGAAACTGGATCGAATGGGCAATGCTTTGTGTGTTGAGGATGGGTGAGATGTCCAGGGCCGAGTCTGTCT 4650  
ACCTTGGAGGCTTTGTGGAGGATGCGGGCTATGAGCCAAGTGTTAAGTGTGGGATGTGGACTGGGAGGAAGGAAG 4725  
GCGCAAGCCGTCCGGAGAGCGGTTGGAGCCTGCAGATGCATTGTGCTGGCTCTGGTGGAGGTGGGCTTGTGGCCT 4800  
GTCAGGAAACGCAAAGGCGGCCGCGAGGGTTTGGTTTGGAAAGTTTGCCTGCTCTTACAGTCGGGTACAGGC 4875  
GAGTTCCTGTGGCGTTTCTACTCCTAATGAGAGTTCTTCCGACTCTTACGTGTCTCCTGGCCTGGCCCCAG 4950  
GAAGGAAATGATGCAGCTTGCTCCTTCTCATCTCTCAGGCTGTGCCTTAATTCAGAACACCAAAAGAGAGGAAC 5025  
GTCGGCAGAGGCTCCTGACGGGGCCGAAGAATTGTGAGAACAGAACAGAACTCAGGGTTTCTGCTGGGTGGAGA 5100  
CCCACGTGGCGCCCTGGTGGCAGGTCTGAGGGTTCTGTCAAGTGGCGGTAAAGGCTCAGGCTGGTGTCTTCC 5175  
TCTATCTCCACTCCTGTGAGGCCCCAAGTCCTCAGTATTTAGCTTTGTGGCTTCTGATGGCAGAAAAATCTT 5250  
AATTGGTTGGTTTGCTCTCCAGATAATCACTAGCCAGATTCGAAATTACTTTTAGCCGAGGTTATGATAACAT 5325  
CTACTGTATCCTTTAGAATTTTAACTATAAACTATGTCTACTGTTTCTGCCTGTGTGCTTATGTT 5393

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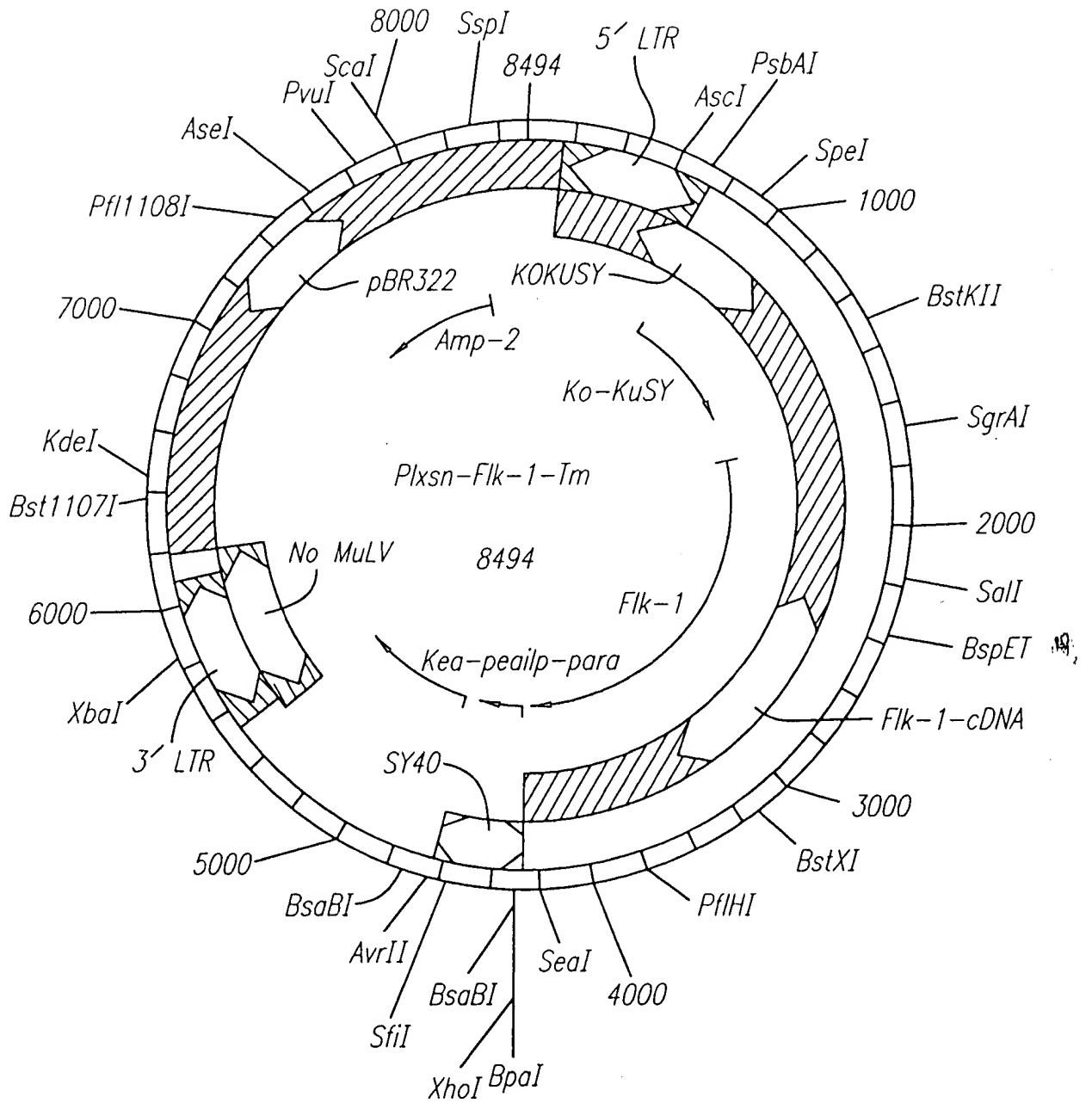


FIG. 12A

F/G. 12B

MEDIATED VASCULOGENESIS AND  
ANGIOGENESIS

Inventor(s): Axel ULLRICH et al.

Appl. No.: 09/766,678

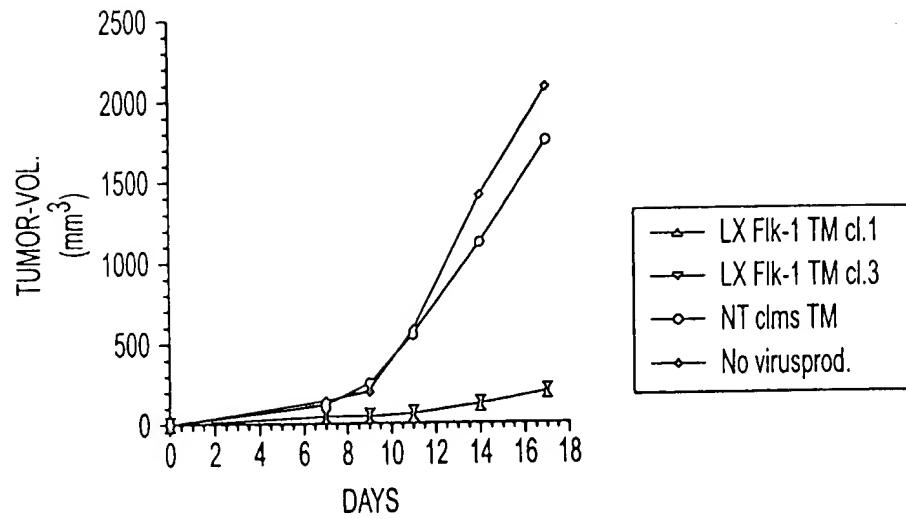


FIG. 14

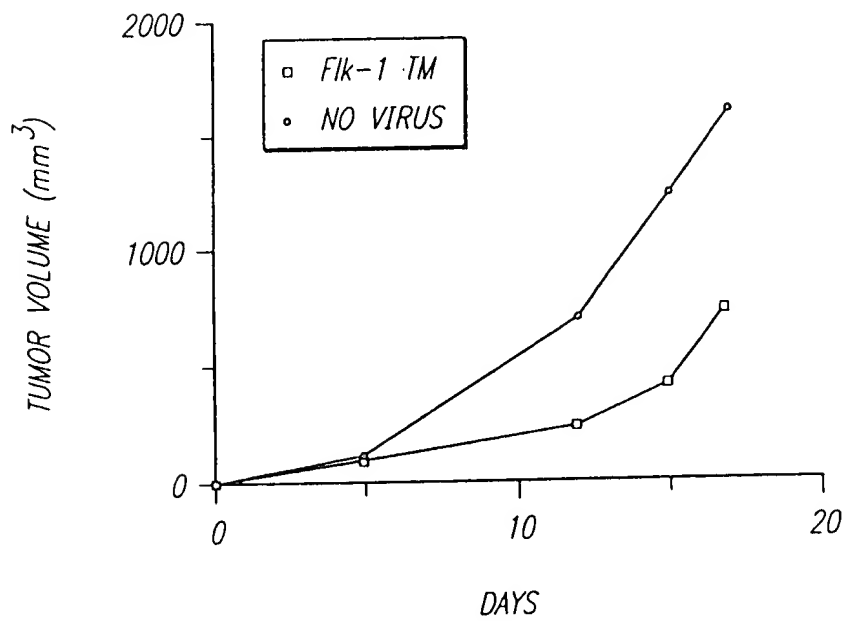


FIG. 15

FIG. 16A

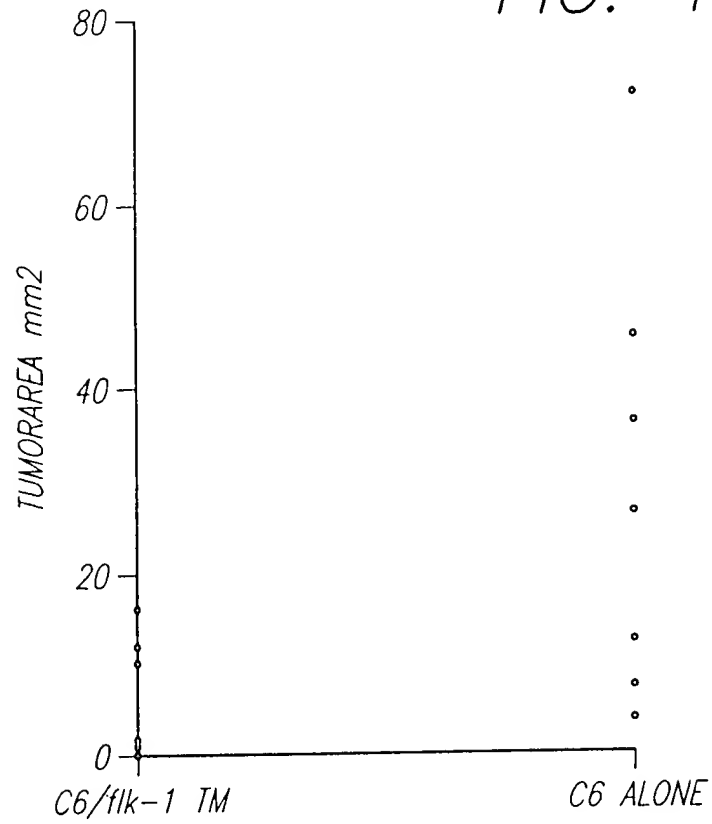
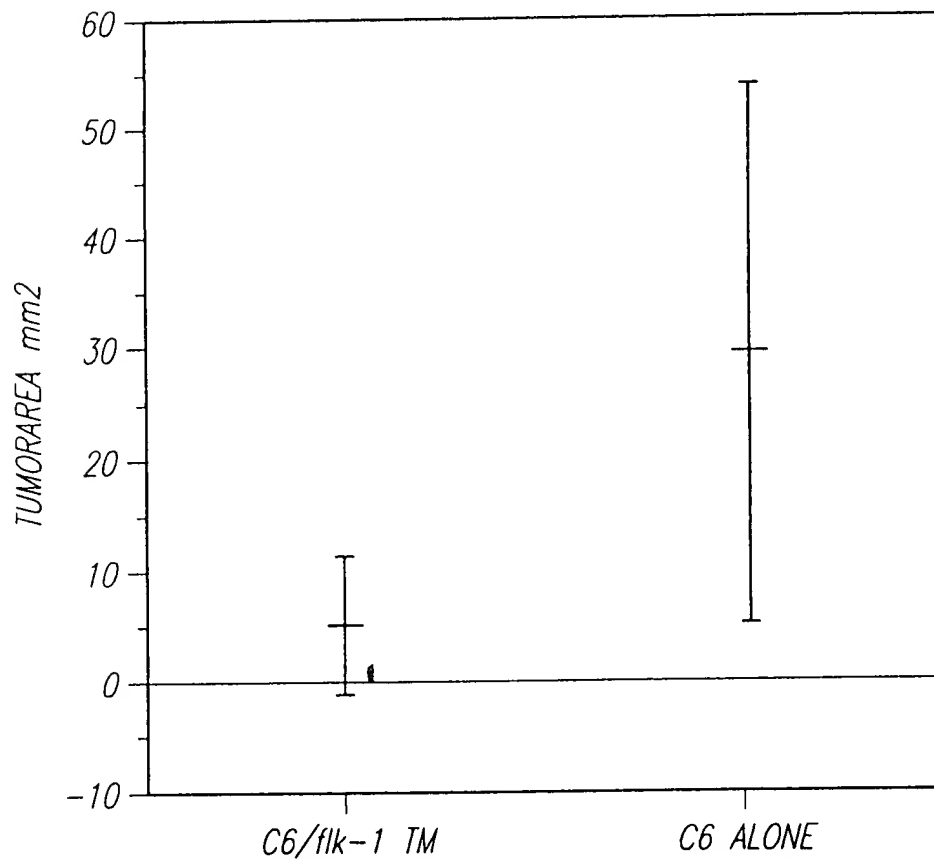


FIG. 16B



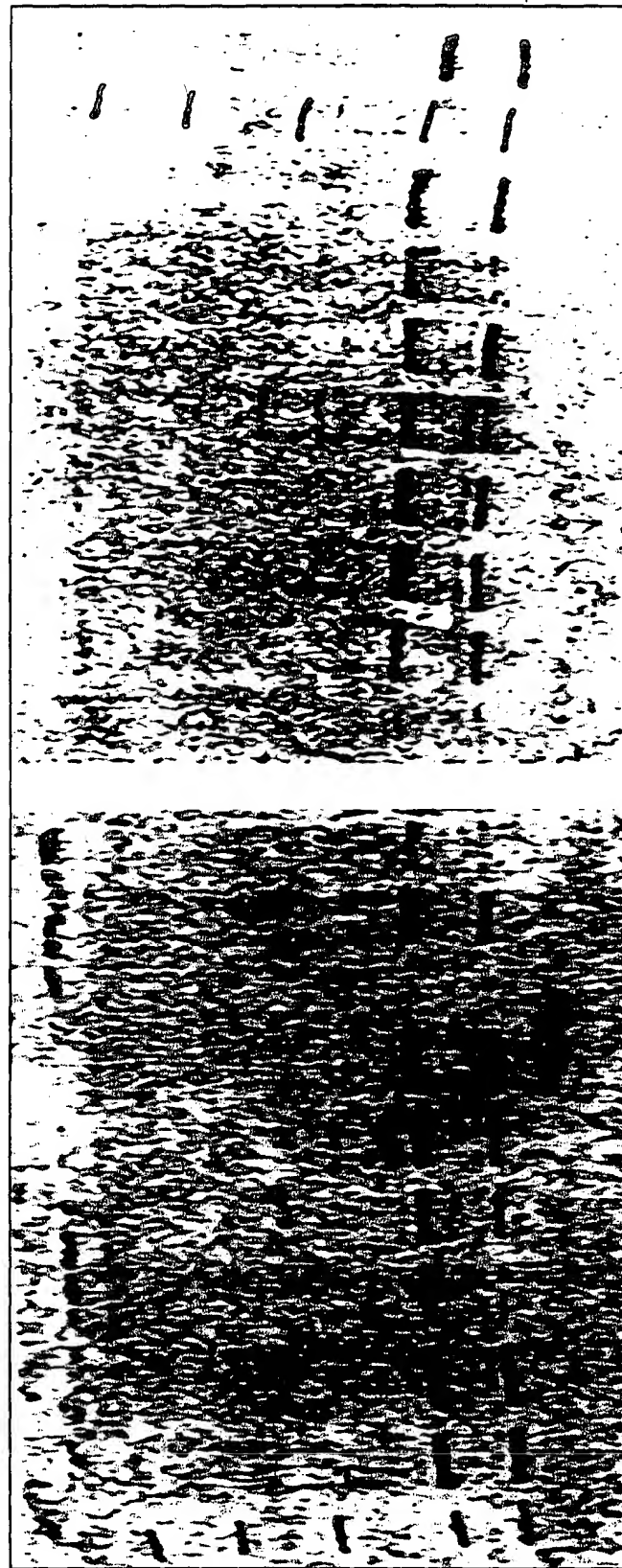
MEDIATED VASCULOGENESIS AND  
ANGIOGENESIS

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Appl. No.: 09/766,678

FIG. 17

FLK-1



CONTROL

MARKER

CONTROL

A1

A2

A3

A4

A5

A6

A7

A8

A9

A10

A11

A12

A13

A14

CONTROL

CONTROL

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